



RAW SEQUENCE LISTING  
PATENT APPLICATION: US/08/908,469

DATE: 10/15/2001  
TIME: 16:14:37

Input Set : A:\P1093p1.txt  
Output Set: N:\CRF3\10152001\H908469.raw

65 (D) TOPOLOGY: Linear  
67 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:  
69 Trp Ile Asn Thr Tyr Thr Gly Glu Pro Thr Tyr Ala Ala Asp Phe  
70 1 5 10 15  
72 Lys Arg  
75 (2) INFORMATION FOR SEQ ID NO: 3:  
77 (i) SEQUENCE CHARACTERISTICS:  
78 (A) LENGTH: 14 amino acids  
79 (B) TYPE: Amino Acid  
80 (D) TOPOLOGY: Linear  
82 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:  
84 Tyr Pro His Tyr Tyr Gly Ser Ser His Trp Tyr Phe Asp Val  
85 1 5 10  
87 (2) INFORMATION FOR SEQ ID NO: 4:  
89 (i) SEQUENCE CHARACTERISTICS:  
90 (A) LENGTH: 11 amino acids  
91 (B) TYPE: Amino Acid  
92 (D) TOPOLOGY: Linear  
94 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:  
96 Ser Ala Ser Gln Asp Ile Ser Asn Tyr Leu Asn  
97 1 5 10  
99 (2) INFORMATION FOR SEQ ID NO: 5:  
101 (i) SEQUENCE CHARACTERISTICS:  
102 (A) LENGTH: 7 amino acids  
103 (B) TYPE: Amino Acid  
104 (D) TOPOLOGY: Linear  
106 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:  
108 Phe Thr Ser Ser Leu His Ser  
109 1 5  
111 (2) INFORMATION FOR SEQ ID NO: 6:  
113 (i) SEQUENCE CHARACTERISTICS:  
114 (A) LENGTH: 9 amino acids  
115 (B) TYPE: Amino Acid  
116 (D) TOPOLOGY: Linear  
118 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:  
120 Gln Gln Tyr Ser Thr Val Pro Trp Thr  
121 1 5  
123 (2) INFORMATION FOR SEQ ID NO: 7:  
125 (i) SEQUENCE CHARACTERISTICS:  
126 (A) LENGTH: 123 amino acids  
127 (B) TYPE: Amino Acid  
128 (D) TOPOLOGY: Linear  
130 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:  
132 Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly  
133 1 5 10 15  
135 Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Tyr Thr Phe Thr  
136 20 25 30  
138 Asn Tyr Gly Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu  
139 35 40 45

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141 Glu Trp Val Gly Trp Ile Asn Thr Tyr Thr Gly Glu Pro Thr Tyr  
142 50 55 60  
144 Ala Ala Asp Phe Lys Arg Arg Phe Thr Phe Ser Leu Asp Thr Ser  
145 65 70 75  
147 Lys Ser Thr Ala Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp  
148 80 85 90  
150 Thr Ala Val Tyr Tyr Cys Ala Lys Tyr Pro His Tyr Tyr Gly Ser  
151 95 100 105  
153 Ser His Trp Tyr Phe Asp Val Trp Gly Gln Gly Thr Leu Val Thr  
154 110 115 120

156 Val Ser Ser

159 (2) INFORMATION FOR SEQ ID NO: 8:

161 (i) SEQUENCE CHARACTERISTICS:  
162 (A) LENGTH: 108 amino acids  
163 (B) TYPE: Amino Acid  
164 (D) TOPOLOGY: Linear

166 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:

168 Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val  
169 1 5 10 15  
171 Gly Asp Arg Val Thr Ile Thr Cys Ser Ala Ser Gln Asp Ile Ser  
172 20 25 30  
174 Asn Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys  
175 35 40 45  
177 Val Leu Ile Tyr Phe Thr Ser Ser Leu His Ser Gly Val Pro Ser  
178 50 55 60  
180 Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile  
181 65 70 75  
183 Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln  
184 80 85 90  
186 Tyr Ser Thr Val Pro Trp Thr Phe Gly Gln Gly Thr Lys Val Glu  
187 95 100 105

189 Ile Lys Arg

192 (2) INFORMATION FOR SEQ ID NO: 9:

194 (i) SEQUENCE CHARACTERISTICS:  
195 (A) LENGTH: 123 amino acids  
196 (B) TYPE: Amino Acid  
197 (D) TOPOLOGY: Linear

199 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:

201 Glu Ile Gln Leu Val Gln Ser Gly Pro Glu Leu Lys Gln Pro Gly  
202 1 5 10 15  
204 Glu Thr Val Arg Ile Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr  
205 20 25 30  
207 Asn Tyr Gly Met Asn Trp Val Lys Gln Ala Pro Gly Lys Gly Leu  
208 35 40 45  
210 Lys Trp Met Gly Trp Ile Asn Thr Tyr Thr Gly Glu Pro Thr Tyr  
211 50 55 60  
213 Ala Ala Asp Phe Lys Arg Arg Phe Thr Phe Ser Leu Glu Thr Ser  
214 65 70 75  
216 Ala Ser Thr Ala Tyr Leu Gln Ile Ser Asn Leu Lys Asn Asp Asp

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217	80	85	90
219	Thr Ala Thr Tyr Phe Cys Ala Lys Tyr Pro His Tyr Tyr Gly Ser		
220	95	100	105
222	Ser His Trp Tyr Phe Asp Val Trp Gly Ala Gly Thr Thr Val Thr		
223	110	115	120
225	Val Ser Ser		
228	(2) INFORMATION FOR SEQ ID NO: 10:		
230	(i) SEQUENCE CHARACTERISTICS:		
231	(A) LENGTH: 108 amino acids		
232	(B) TYPE: Amino Acid		
233	(D) TOPOLOGY: Linear		
235	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:		
237	Asp Ile Gln Met Thr Gln Thr Thr Ser Ser Leu Ser Ala Ser Leu		
238	1 5 10 15		
240	Gly Asp Arg Val Ile Ile Ser Cys Ser Ala Ser Gln Asp Ile Ser		
241	20 25 30		
243	Asn Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Asp Gly Thr Val Lys		
244	35 40 45		
246	Val Leu Ile Tyr Phe Thr Ser Ser Leu His Ser Gly Val Pro Ser		
247	50 55 60		
249	Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Tyr Ser Leu Thr Ile		
250	65 70 75		
252	Ser Asn Leu Glu Pro Glu Asp Ile Ala Thr Tyr Tyr Cys Gln Gln		
253	80 85 90		
255	Tyr Ser Thr Val Pro Trp Thr Phe Gly Gly Gly Thr Lys Leu Glu		
256	95 100 105		
258	Ile Lys Arg		
261	(2) INFORMATION FOR SEQ ID NO: 11:		
263	(i) SEQUENCE CHARACTERISTICS:		
264	(A) LENGTH: 113 amino acids		
265	(B) TYPE: Amino Acid		
266	(D) TOPOLOGY: Linear		
268	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:		
270	Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly		
271	1 5 10 15		
273	Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser		
274	20 25 30		
276	Ser Tyr Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu		
277	35 40 45		
279	Glu Trp Val Ser Val Ile Ser Gly Asp Gly Gly Ser Thr Tyr Tyr		
280	50 55 60		
282	Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser		
283	65 70 75		
285	Lys Asn Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp		
286	80 85 90		
288	Thr Ala Val Tyr Tyr Cys Ala Arg Gly Phe Asp Tyr Trp Gly Gln		
289	95 100 105		
291	Gly Thr Leu Val Thr Val Ser Ser		
292	110		

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294 (2) INFORMATION FOR SEQ ID NO: 12:

296 (i) SEQUENCE CHARACTERISTICS:

297 (A) LENGTH: 108 amino acids

298 (B) TYPE: Amino Acid

299 (D) TOPOLOGY: Linear

301 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:

303 Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val  
304 1 5 10 . 15  
306 Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser  
307 20 25 30  
309 Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys  
310 35 40 45  
312 Leu Leu Ile Tyr Ala Ala Ser Ser Leu Glu Ser Gly Val Pro Ser  
313 50 55 60  
315 Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile  
316 65 70 75  
318 Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln  
319 80 85 90  
321 Tyr Asn Ser Leu Pro Trp Thr Phe Gly Gln Gly Thr Lys Val Glu  
322 95 100 105

324 Ile Lys Arg

327 (2) INFORMATION FOR SEQ ID NO: 13:

329 (i) SEQUENCE CHARACTERISTICS:

330 (A) LENGTH: 107 amino acids

331 (B) TYPE: Amino Acid

332 (D) TOPOLOGY: Linear

334 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:

336 Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val  
337 1 5 10 . 15  
339 Gly Asp Arg Val Thr Ile Thr Cys Ser Ala Ser Gln Asp Ile Ser  
340 20 25 30  
342 Asn Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys  
343 35 40 45  
345 Leu Leu Ile Tyr Phe Thr Ser Ser Leu His Ser Gly Val Pro Ser  
346 50 55 60  
348 Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile  
349 65 70 75  
351 Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln  
352 80 85 90  
354 Tyr Ser Thr Val Pro Trp Thr Phe Gly Gln Gly Thr Lys Val Glu  
355 95 100 105

357 Ile Lys

360 (2) INFORMATION FOR SEQ ID NO: 14:

362 (i) SEQUENCE CHARACTERISTICS:

363 (A) LENGTH: 123 amino acids

364 (B) TYPE: Amino Acid

365 (D) TOPOLOGY: Linear

367 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:

369 Glu Val Gln Leu Val Glu Ser Gly Gly Leu Val Gln Pro Gly

VERIFICATION SUMMARY  
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Input Set : A:\P1093p1.txt  
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L:32 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]  
L:33 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]  
L:2469 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:119  
L:2481 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:120  
L:2496 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:121  
L:2508 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:122  
L:2520 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:123  
L:2544 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:125  
L:2556 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:126  
L:2592 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:127  
L:2595 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:127  
L:2607 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:127  
L:2649 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:130  
L:2661 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:131